

ABSTRACT OF THE DISCLOSURE

1 A pump chamber defines a capacity increased in a first certain angle range and
2 decreased in a second certain angle range. An intake port is open in an increase range
3 where the pump chamber moves from a minimum capacity position to a maximum
4 capacity position. A discharge port is open in a decrease range where the pump chamber
5 moves from the maximum capacity position to the minimum capacity position, the
6 discharge port being biased to the minimum capacity position. A seal land portion seals a
7 communication between the intake port and the discharge port via the pump chamber. A
8 reduced portion is defined between a communication portion and the pump chamber. A
9 bypass path connects the communication portion with the discharge port. A relief valve
10 intervened in the bypass path opens the bypass path with a pressure of the communication
11 portion increased to or over a set pressure.